BALB/c mice correlates with replication in the nasopharynx Replication of RSV subgroup A mutants in the lungs of

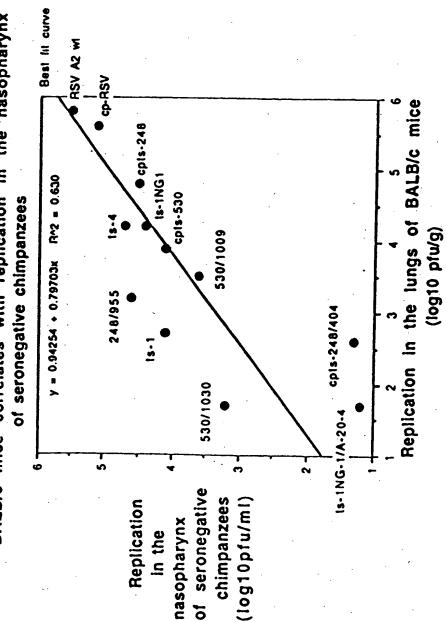


FIG.

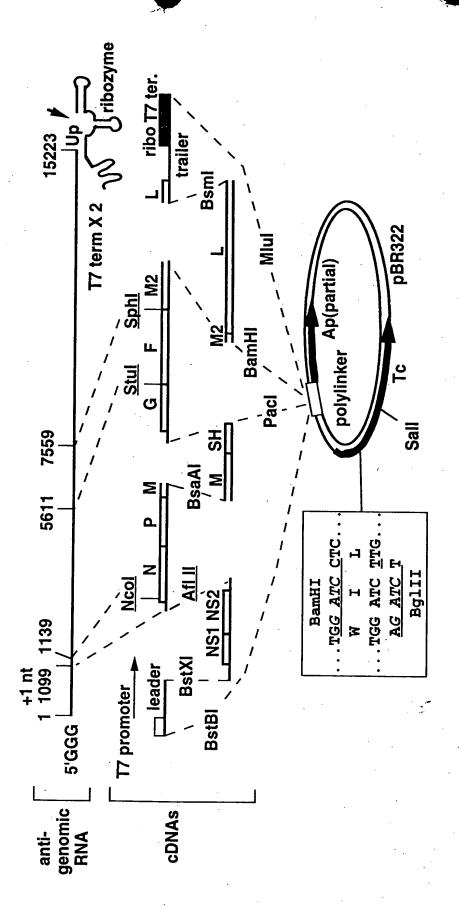
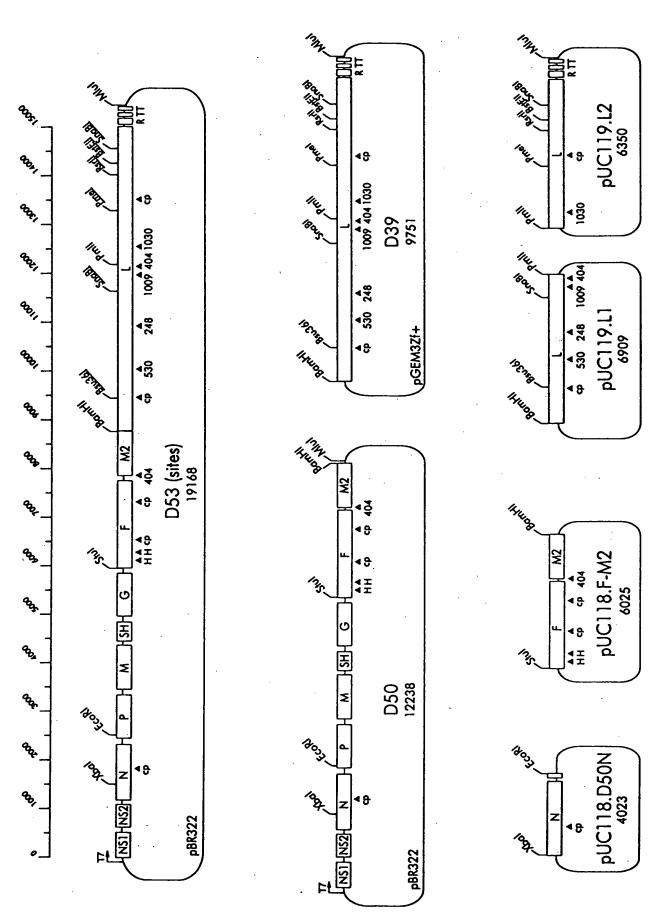


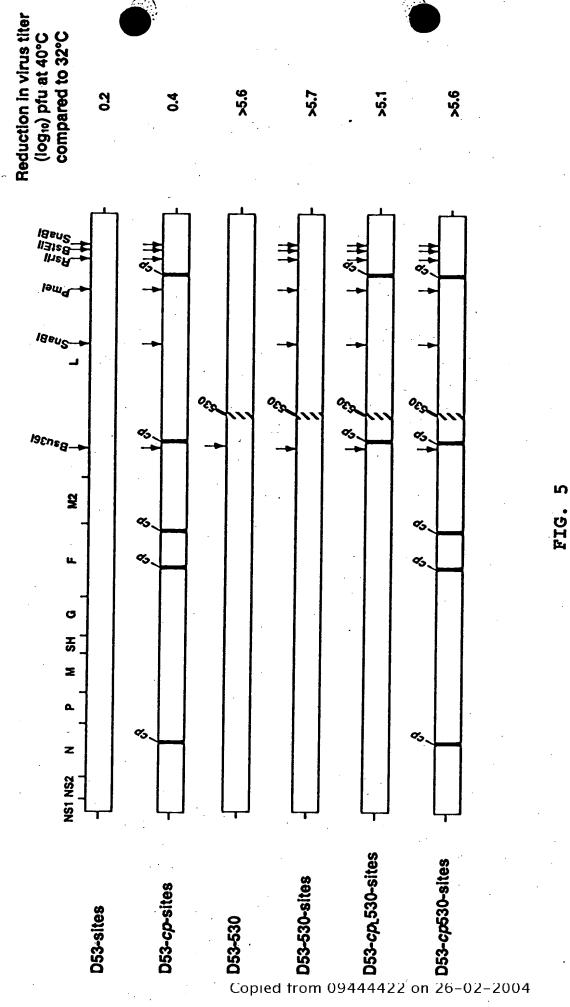
Fig.

## FIG. 3

1139 NS2 1099 NS2/N intergenic GE iiii uuiigagagauauiagiuigiigau ggggggiiiu iciiigg NCOL AFÎII 5611 G/F intergenic G GE ĊΑυΑυὖΑὖCΑĊΑΙΑΙΑΘCĊΑυGΑCCAACὖUĂĂAĊĂGAĂUĊĂĂĂÂŮA StuI M2 GS F/M2 intergenic 7559 F GE λίλ ἀλάλουσιλος ἀσλουλος ἀνουλος ἀνουλλολονος ἀσ SphI



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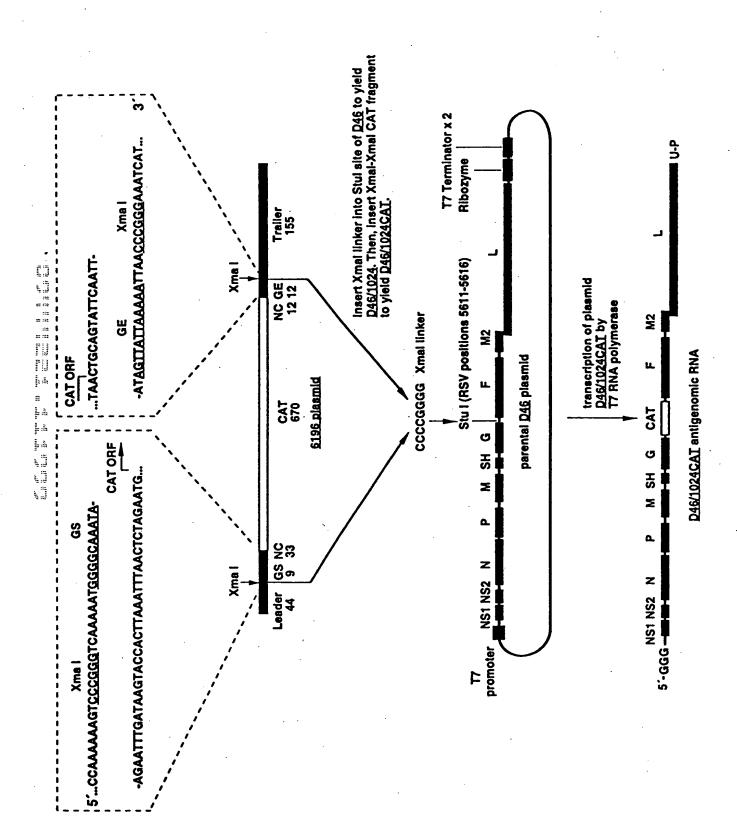


FIG.

9

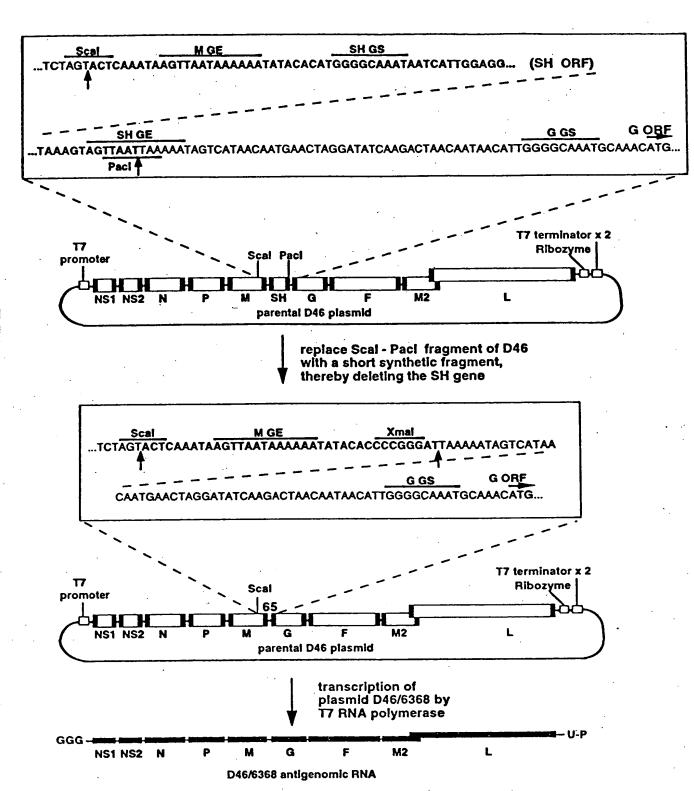


FIG. 7

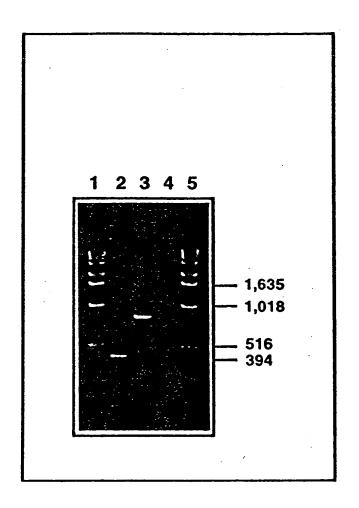
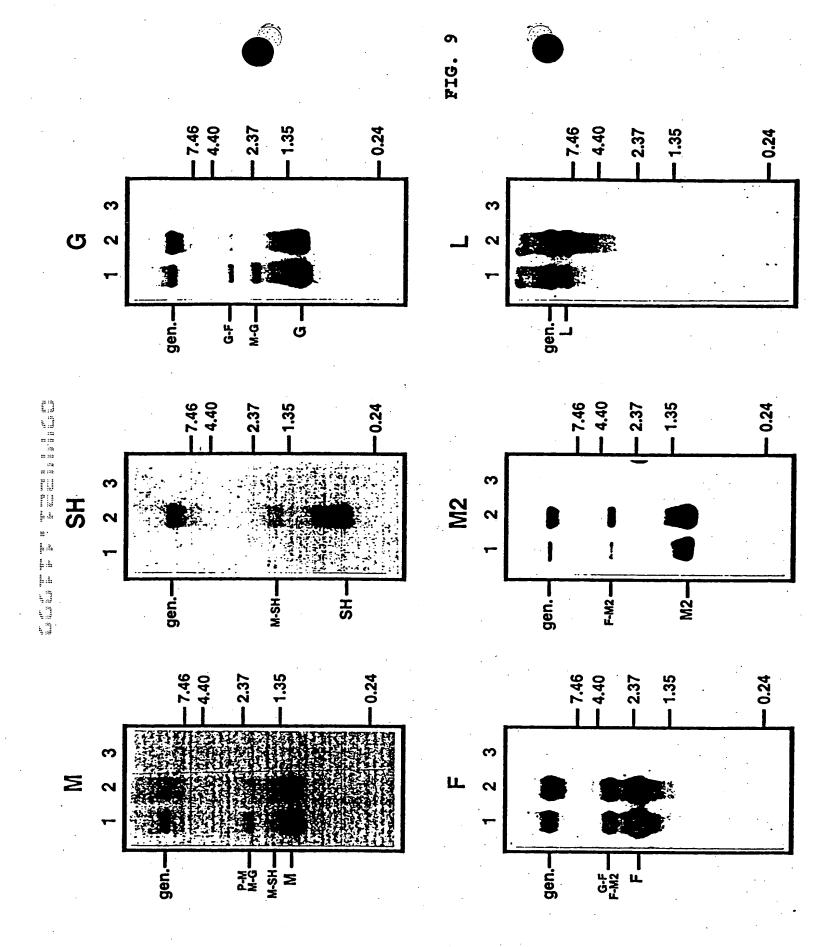


FIG. 8



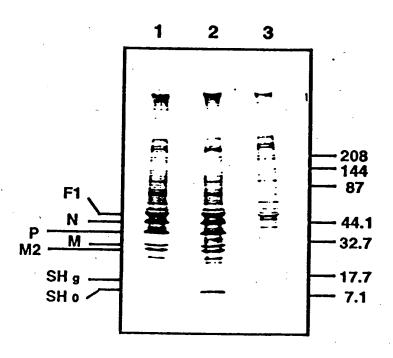


FIG. 10

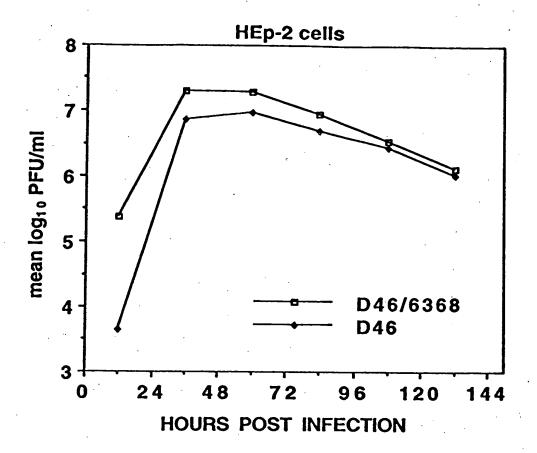


FIG. 11

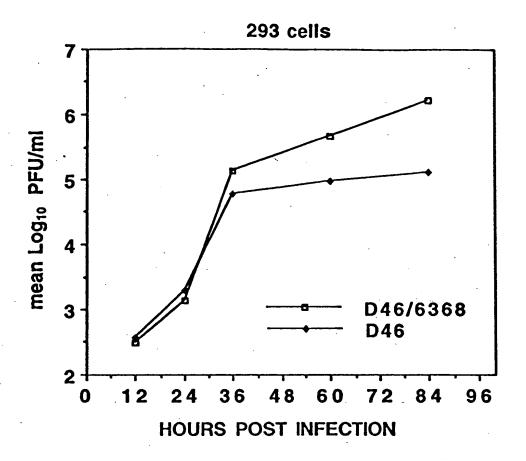


FIG. 12

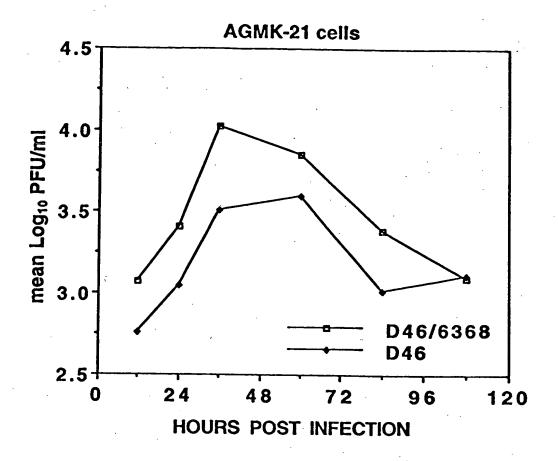


FIG. 13

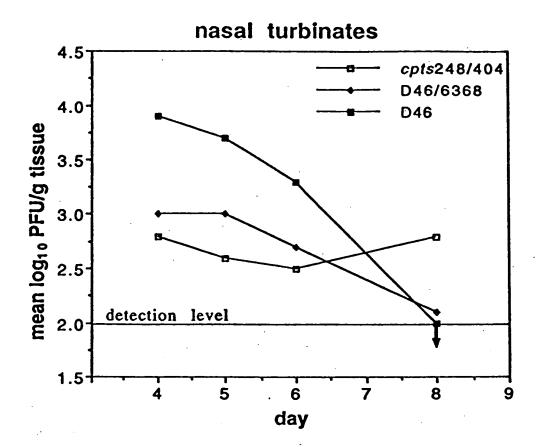


FIG. 14

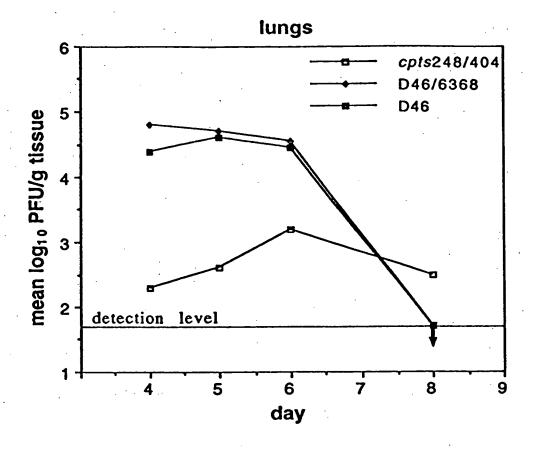
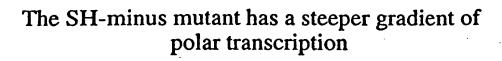


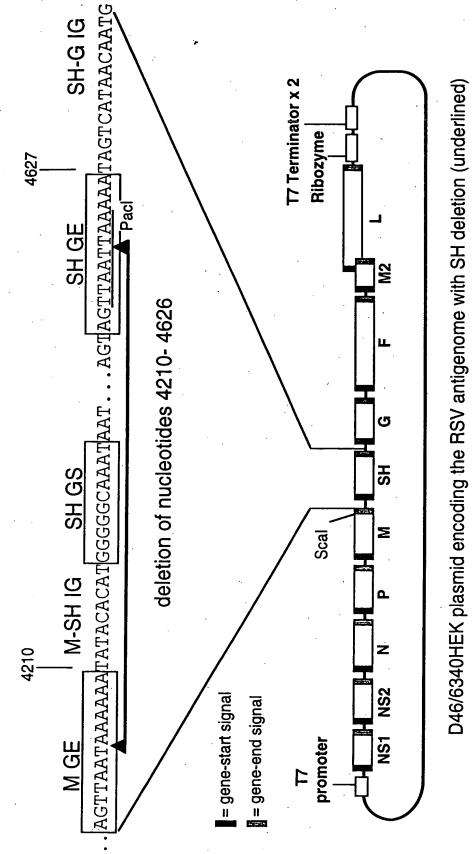
FIG. 15



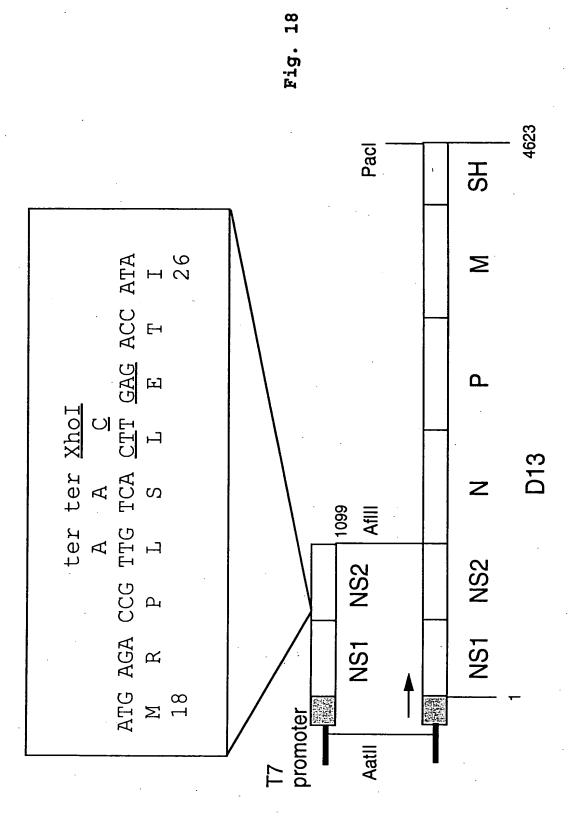
Relative mRNA abundance: SH-minus / wild type						
M	G	F	M2	L		
1.1	1.3	0.61	0.32	0.17		

Positions of genes in 3'- 5' map						
V	5	6	7 10	)		
WT:	3'- M - SH - G - F - M2 - L					
	5	$\epsilon$	5 9	·		
SH-minus:	3'- M	(	G - F - M2 - L	,		

FIG. 16



Note:- the intergenic regions which remain were unaltered in ength, and no heterologous sequence was added Deletion of the complete SH gene.



translational open reading frame to ablate expression of the encoded protein Insertion of two tandem translational stop codons into the NS2

## Growth Curve of NS2 Knockout Viruses

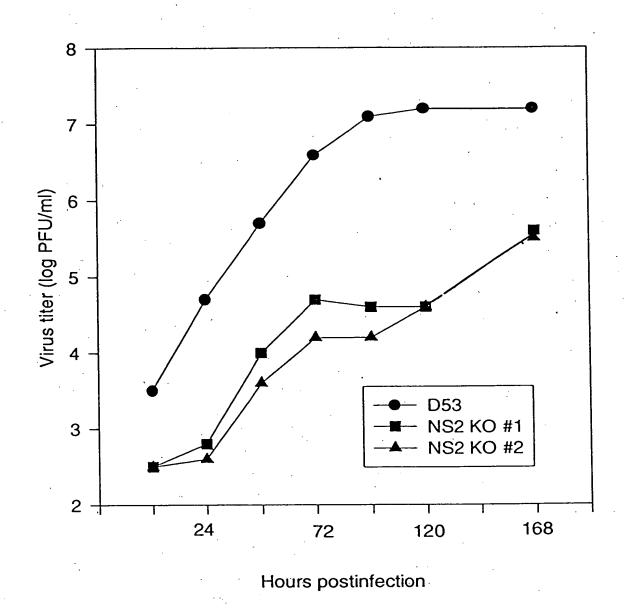
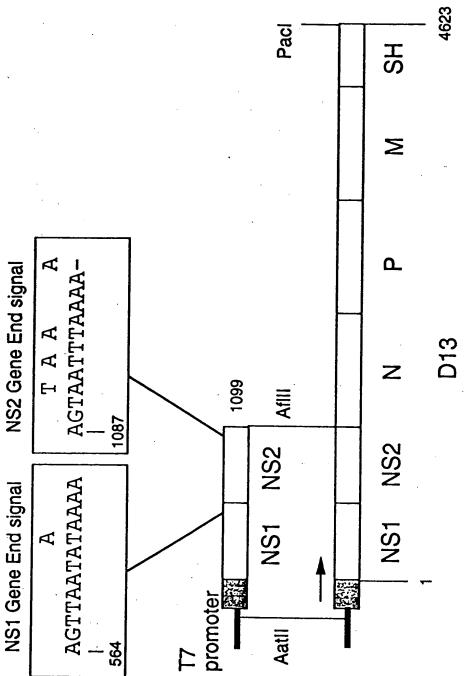
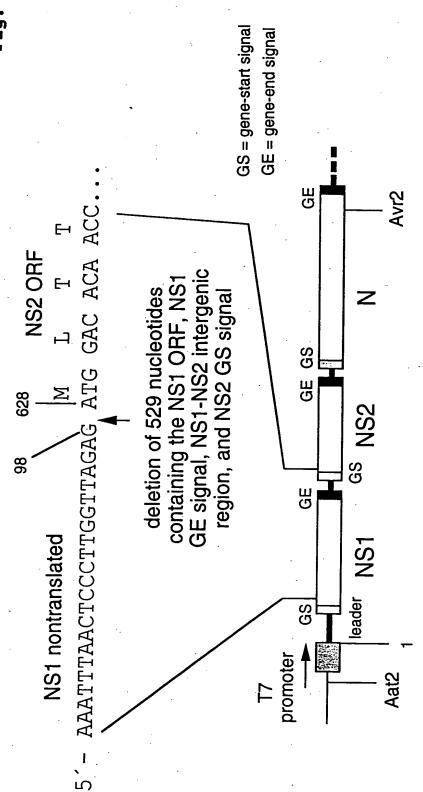


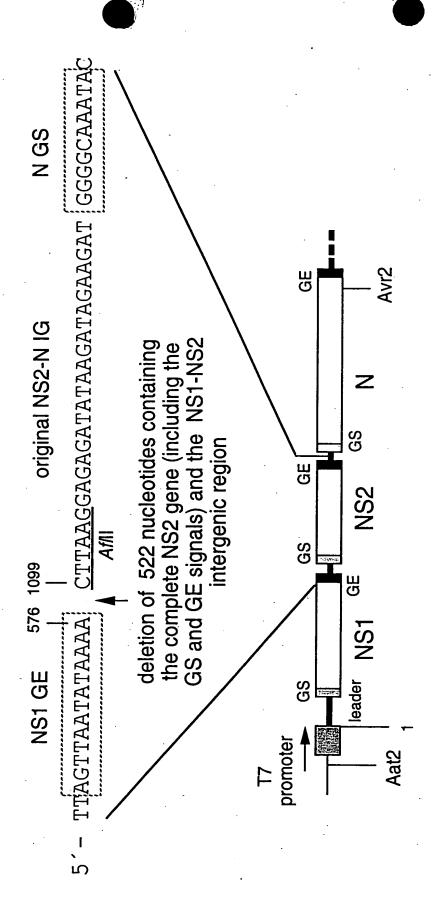
Fig. 19



Modification of the Gene End (GE) signals of the NS1 and NS2 genes.

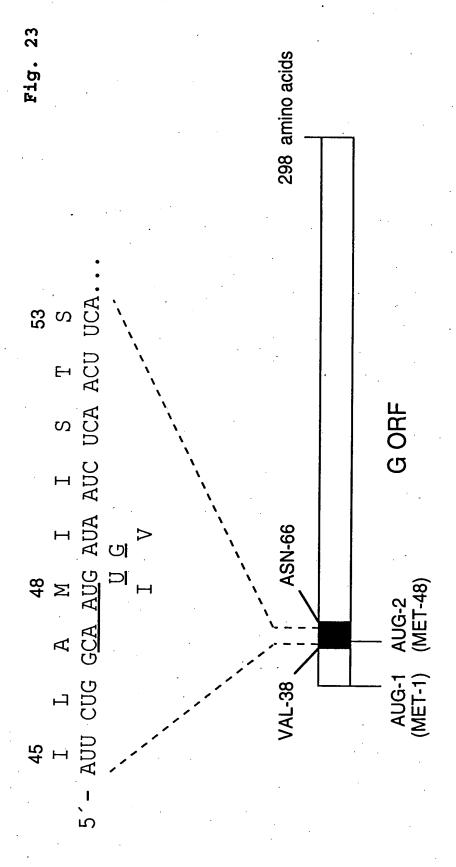


Deletion of the NS1 gene. The deletion (arrow) begins immediately upstream of the NS1 ATG and extends to immediately upstream of the NS2 ATG. Note: only the first three genes of the cDNA insert of plasmid D13 are shown. Numbering is from the first nucleotide of the leader region.



Deletion of the NS2 gene. The deletion (arrow) begins after the NS1 gene and extends to immediately after the NS2 gene. Note that only the first three genes of the cDNA insert of plasmid D13 are shown.

Fig. 22



Ablation of the secreted form of the G protein by mutation of its translational start site. The open rectangle illustrates the G ORF, with the hydrophobic signalanchor portion filled in. An Mfel site created by the mutation is indicated by underlining.

Fig. 24